SEQUENCE LISTING



<110> Hannoufa, Abdelali Hegedua, Dwayne Bate, Nicholas

<120> A Repressor-Mediated Regulation System for Control of Gene Expression in Plants

- <130> 1096.021A <140> US 10/719,996 <141> 2003-11-21 <150> PCT/CA02/00740 <151> 2002-05-23
- <150> US 60/292,973 <151> 2001-05-23
- <160> 44
- <170> PatentIn version 3.0
- <210> 1 <211> 429 <212> DNA
- <213> Agrobacterium tumefaciens

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ccggaagaat atcgcgaaaa atgggatctg ccggtcgatt atccgatggt tgctcccgcc 360
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gaygtncaya cngcnytnws nggnacnwsn gcnccngcnw sngtngcngt naaygtngar 180
aarcaraarc cngcngtnws ngtnmgnaar wsngtncarg aygaycayat hgtntgyytn 240
gartgyggng gnwsnttyaa rwsnytnaar mgncayytna cnacncayca ywsnatgacn 300

Congar	gare aymungaraa regggayyen congengaye ayconaegge ngoncongon	360
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<223> ROS operator sequence in ipt gene

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tggtca	gtcc cttatg	136
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2-22-0		± J /

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60

120

180

237

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115

Ala Lys Glu Met Gly Leu Gly Gln Arg Arg Lys Ala Asn Arg 130 135 140

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Thr Ala Asp Ile Val Ala Ala Tyr Val Ser Asn His Val Val Pro Val 20 25 30

Thr Glu Leu Pro Gly Leu Ile Ser Asp Val His Thr Ala Leu Ser Gly 35 40 45

Thr Ser Ala Pro Ala Ser Val Ala Val As
n Val Glu Lys Gl
n Lys Pro 50 55 60

Ala Val Ser Val Arg Lys Ser Val Gln Asp Asp His Ile Val Cys Leu 65 70 75 80

Glu Cys Gly Gly Ser Phe Lys Ser Leu Lys Arg His Leu Thr Thr His 85 90 95

His Ser Met Thr Pro Glu Glu Tyr Arg Glu Lys Trp Asp Leu Pro Val 100 105 110

Asp Tyr Pro Met Val Ala Pro Ala Tyr Ala Glu Ala Arg Ser Arg Leu 115 120 125

Ala Lys Glu Met Gly Leu Gly Gln Arg Arg Lys Ala Asn Arg Pro Lys 130 135 140

Lys Lys Arg Lys Val 145

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<212> PRT

<213> rhizobium elti

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Met Thr Asp Met Ala Thr Gly Asn Ala Pro Glu Leu Leu Val Glu Leu 1 5 10 15

Thr Ala Asp Ile Val Ala Ala Tyr Val Ser Asn His Val Val Pro Val 20 25 30

Ser Asp Leu Ala Asn Leu Ile Ser Asp Val His Ser Ala Leu Ser Asn 35 40 45

Thr Ser Val Pro Gln Pro Ala Ala Ala Val Val Glu Lys Gln Lys Pro 50 55 60

Ala Val Ser Val Arg Lys Ser Val Gln Asp Glu Gln Ile Thr Cys Leu 65 70 75 80

Glu Cys Gly Gly Asn Phe Lys Ser Leu Lys Arg His Leu Met Thr His $85 \hspace{1cm} 90 \hspace{1cm} 95$

His Ser Leu Ser Pro Glu Glu Tyr Arg Glu Lys Trp Asp Leu Pro Thr 100 105 110

Asp Tyr Pro Met Val Ala Pro Ala Tyr Ala Glu Ala Arg Ser Arg Leu 115 120 125

Ala Lys Glu Met Gly Leu Gly Gln Arg Arg Lys Arg Gly Arg Gly 130 135 140

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Met Thr Glu Thr Ala Tyr Gly Asn Ala Gln Asp Leu Leu Val Glu Leu 1 5 10 15

Thr Ala Asp Ile Val Ala Ala Tyr Val Ser Asn His Val Val Pro Val 20 25 30

Thr Glu Leu Pro Gly Leu Ile Ser Asp Val His Thr Ala Leu Ser Gly 35 40 45

Thr Ser Ala Pro Ala Ser Val Ala Val Asn Val Glu Lys Gln Lys Pro 50 60

Ala Val Ser Val Arg Lys Ser Val Gln Asp Asp His Ile Val Cys Leu 65 70 75 80

Glu Cys Gly Gly Ser Phe Lys Ser Leu Lys Arg His Leu Thr Thr His 85 90 95

His Ser Met Thr Pro Glu Glu Tyr Arg Glu Lys Trp Asp Leu Gln Val 100 105 110

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<210> 30

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Met Thr Glu Thr Ser Leu Gly Thr Ser Asn Glu Leu Leu Val Glu Leu $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Thr Ala Glu Ile Val Ala Ala Tyr Val Ser Asn His Val Val Pro Val 20 25 30

Ala Glu Leu Pro Thr Leu Ile Ala Asp Val His Ser Ala Leu Asn Asn 35 40 45

Thr Thr Ala Pro Ala Pro Val Val Pro Val Glu Lys Pro Lys Pro 50 55 60

Ala Val Ser Val Arg Lys Ser Val Gln Asp Asp Gln Ile Thr Cys Leu 70 75 80

Glu Cys Gly Gly Thr Phe Lys Ser Leu Lys Arg His Leu Met Thr His 85 90 95

His Asn Leu Ser Pro Glu Glu Tyr Arg Asp Lys Trp Asp Leu Pro Ala 100 105 110

Asp Tyr Pro Met Val Ala Pro Ala Tyr Ala Glu Ala Arg Ser Arg Leu 115 120 125

Ala Lys Glu Met Gly Leu Gly Gln Arg Arg Lys Arg Arg Gly Lys 130 135 140

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Lys Lys

<210> 33

<211> 21

<212> PRT

<213> Nicotiana sp.

<400> 33

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Arg Lys

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Leu
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Lys Arg Ile Ala Pro Asp Ser Ala Ser Lys Val Pro Arg Lys Lys Thr

Arg

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Lys